

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P289696

Luminaire Tested: **8SSRK-50-L830-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P289696  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-078-11)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 8SSRK-50-L830-CD1-U  
Description: 5000 LUMEN, 8 FOOT SSRK LED LUMINAIRE WITH NO LENS AND 80 CRI 3000K CCT LEDs  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5433.9 lumens  
Efficiency: N/A  
Efficacy: 158.9 lumens/watt  
Spacing Criteria (0/90/45): 1.29 / 1.29 / 1.41  
Luminous Opening: Rectangular w/ Sides (W: 0.04' x L: 8' x H: 0.17')  
CIE Type: Direct

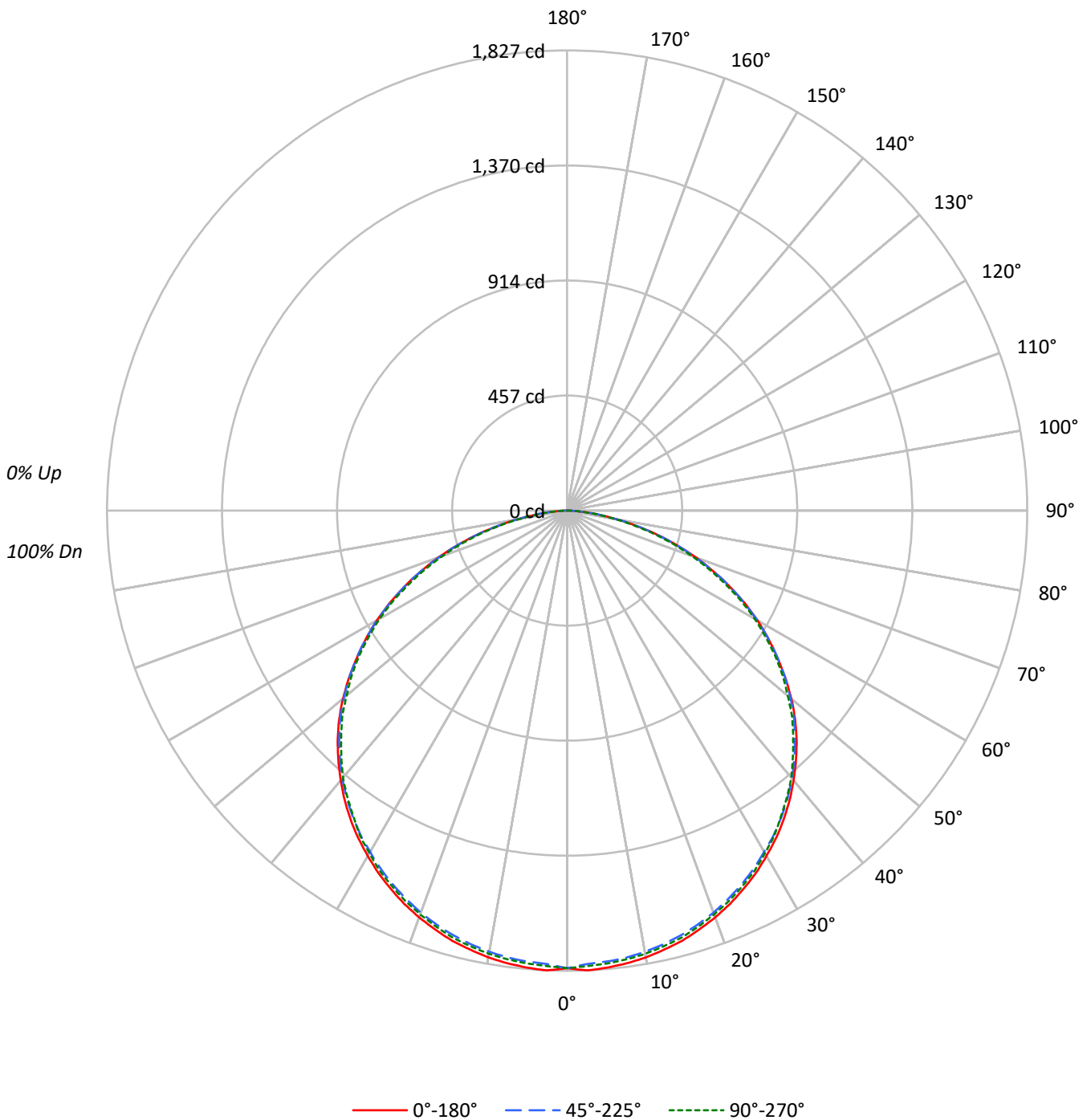
Input Watts (W): 34.1991  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	104	100	96	106	102	98	94	97	94	91	93	91	88	90	88	86	84
2	99	90	83	78	96	88	82	77	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	77	70	64	74	68	62	72	66	61	69	64	60	58
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	49
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42
6	69	56	47	40	68	55	46	40	53	46	40	51	45	39	50	44	39	37
7	64	51	42	36	63	50	41	35	48	41	35	47	40	35	45	39	35	33
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	35	31	29
9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	38	31	26	37	30	25	37	30	25	36	30	25	23

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	58664	58664	58664
5°	58933	46659	43349
10°	58841	38841	34357
15°	58767	33123	28320
20°	58617	28682	23874
25°	58477	25095	20467
30°	58331	22086	17696
35°	58219	19560	15360
40°	57943	17288	13395
45°	57650	15208	11590
50°	56966	13257	9957
55°	55732	11354	8465
60°	54349	9505	7010
65°	52025	7664	5536
70°	48688	5791	4133
75°	42798	3960	2797
80°	33861	2211	1510
85°	21815	800	497



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	172.2	3.2
10°-20°	496.0	9.1
20°-30°	760.2	14.0
30°-40°	931.8	17.1
40°-50°	987.2	18.2
50°-60°	910.2	16.8
60°-70°	699.5	12.9
70°-80°	387.7	7.1
80°-90°	89.2	1.6
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1428.4	26.3
0°-40°	2360.2	43.4
0°-60°	4257.6	78.4
0°-90°	5433.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5433.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1817	1817	1817	1817	1817	
5°	1821	1814	1798	1815	1805	173
15°	1768	1759	1746	1761	1755	499
25°	1657	1651	1638	1655	1646	764
35°	1498	1491	1484	1489	1481	937
45°	1289	1285	1280	1278	1269	993
55°	1019	1027	1021	1016	1009	912
65°	711	713	712	702	694	703
75°	370	370	368	362	357	391
85°	73	74	72	69	63	90
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1816.7	1816.7	1816.7	1816.7	1816.7
2.5°	1827.4	1818.4	1801.7	1818.4	1810.1
5°	1821.4	1813.7	1797.5	1814.9	1805.3
7.5°	1813.1	1806.5	1790.4	1807.1	1797.5
10°	1801.1	1794.0	1778.4	1796.4	1786.8
12.5°	1785.0	1778.4	1763.5	1780.2	1771.9
15°	1767.7	1759.3	1745.6	1761.1	1755.1
17.5°	1743.8	1737.2	1723.5	1738.4	1731.9
20°	1718.7	1712.1	1698.4	1713.3	1706.2
22.5°	1690.1	1683.5	1669.2	1685.3	1678.1
25°	1657.2	1651.2	1638.1	1654.8	1645.9
27.5°	1622.6	1617.8	1603.5	1617.2	1611.8
30°	1583.2	1580.2	1564.6	1575.4	1570.6
32.5°	1543.1	1537.8	1527.0	1535.4	1530.6
35°	1498.4	1491.2	1484.0	1489.4	1481.0
37.5°	1450.6	1445.8	1438.0	1442.8	1433.3
40°	1398.6	1394.4	1388.5	1389.7	1384.3
42.5°	1344.9	1340.1	1335.3	1332.9	1327.0
45°	1288.7	1284.6	1279.8	1278.0	1269.0
47.5°	1227.8	1224.8	1221.9	1217.7	1211.1
50°	1162.1	1163.3	1158.0	1154.4	1143.0
52.5°	1091.7	1098.8	1091.1	1085.7	1079.1
55°	1019.4	1027.2	1020.6	1016.4	1009.3
57.5°	947.7	951.3	947.1	944.2	934.6
60°	871.9	874.9	871.9	865.3	860.6
62.5°	793.7	797.3	791.3	786.5	779.9
65°	711.3	713.0	711.9	702.3	693.9
67.5°	628.2	631.2	627.6	621.1	612.7
70°	545.2	543.4	540.5	535.7	524.9
72.5°	457.4	457.4	456.9	447.9	442.5
75°	369.7	370.3	368.5	362.5	357.1
77.5°	281.9	288.4	283.7	277.7	271.7
80°	203.6	207.8	203.6	195.9	192.3
82.5°	130.2	136.2	132.6	124.8	123.6
85°	72.9	74.1	72.3	68.7	62.7
87.5°	27.5	28.7	29.3	23.9	20.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)